AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application.

Listing Of Claims:

Claim 1. (Original): Transition metal compounds having at least two ligands and at least one donor-acceptor interaction between the ligands, wherein at least one ligand is a fluorenyl ligand and the transition metal compound has at least one alkyl or aryl group on at least one acceptor atom.

Claim 2. (Original): Transition metal compounds according to Claim 1, wherein the second ligand is a cyclopentadienyl ligand.

Claim 3. (Original): Transition metal compounds according to Claim 1, wherein the acceptor group contains an acceptor atom from group 13 of the Periodic Table of the Elements (IUPAC 1985).

Claim 4. (Original): Transition metal compounds according to Claim 1, wherein at least one acceptor atom has dialkyl or diaryl substituents.

Claim 5. (Original): Transition metal compounds according to Claim 1, wherein at least one acceptor atom has diethyl or diphenyl substituents.

Claim 6. (Original): A catalyst comprising the transition metal compounds according to Claim 1.

Claim 7. (Original): A reaction product prepared by reacting a cocatalyst and transition metal compounds according to Claim 1.

Claim 8. (Presently Amended): A process for the homopolymerization or copolymerization of one or more olefins, cycloolefins, isoolefins, alkynes or diolefins monomers comprising the step of admixing one or more monomer in the presence of at least one <u>transition metal compounds having at least two ligands and at least one donor-acceptor interaction between the ligands, wherein at least one ligand is a <u>fluorenyl ligand and the transition metal compound has at least one alkyl or aryl group on at least one acceptor atom transition metal compound according to Claim 1 and optionally one or more cocatalyst, wherein the process is carried out at a temperature from about –60 to about +250°C.</u></u>

Claim 9. (Original): A process for ring-opening polyaddition comprising the step of admixing one or more monomer in the presence of at least one transition metal compound according to Claim 1 and optionally one or more cocatalyst, wherein the process is carried out at a temperature from about –60 to about +250°C.

Claim 10. (Original): Process according to Claim 8, wherein the transition metal compounds are applied to a support material.

Claim 11. (Original): Process according to Claim 9, wherein the transition metal compounds are applied to a support material.

Claim 12. (Original): Process according to Claim 8, wherein the polymerization is carried out in the temperature range from 10°C to 100°C.

Claim 13. (Original): Process according to Claim 12, wherein the polymerisation is carried out in the temperature range 20° to 90°C.

Claim 14. (Original): Process according to Claim 13 wherein the polymerisation is carried out in the temperature range from 30°C to 80°C.

Claim 15. (Original): Process according to Claim 8, wherein the ratio of cocatalyst to transition metal compound is in the range \leq 100,000:1.

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Claim 16. (Original): Process according to Claim 15, wherein the ratio of cocatalyst to transition metal compound is in the range \leq 10,000:1.

Claim 17. (Original): Process according to Claim 16, wherein the ratio of cocatalyst to transition metal compound is in the range, $\leq 1,000:1$.

Claim 18. (Original): Process according to Claim 17, wherein the ratio of cocatalyst to transition metal compound is in the range \leq 300:1.

Claim 19. (Original): Process according to Claim 8, wherein the polymers produced have a bimodal molar mass distribution, and wherein percentage ratio of the two polymer fractions is controlled by means of the temperature.

Claim 20. (Original): Process according to Claim 8, further comprising the presence of a second transition metal compound with or without a donor-acceptor interaction, wherein the polymers produced have a bimodal mass distribution and wherein percentage ratio of the two polymer fractions is controlled by means of the ratio of the transition metal compounds used.

Claim 21. (Original): A process for preparing an elastomer comprising the step of admixing one or more monomer in the presence of at least one transition metal compound according to Claim 1 and optionally one or more cocatalyst, wherein the elastomer has an $M_{\eta} \geq 5 \cdot 10^4$ g/mol.

Claim 22. (Original): A process for preparing a polyolefin comprising the step of admixing one or more monomer in the presence of at least one transition metal compound according to Claim 1 and optionally one or more cocatalyst, wherein the polyolefin has an $M_{\eta} \geq 5 \cdot 10^4$ g/mol.

Claim 23. (Original): The process according to Claim 22, wherein the elastomer is an elastomeric polypropylene.

Claim 24. (Original): The process according to Claim 22, wherein the elastomer prepared is selected from the group consisting of EPDM, EBDM, EHDM, EODM or mixtures thereof.

Claim 25. (Original): The process according to Claim 22, wherein the elastomer has long-chain branching.

Claim 26. (Original): The process according to Claim 22, wherein the elastomer prepared has bimodal or multimodal molecular weigh distribution.